



Missouri  
Department of  
Natural Resources

Use Attainability Analysis

for

WBID 3135 Stevenson Bayou

Submitted by  
MEC/ERC

To  
Missouri Department of Natural Resources  
Water Protection Program

On

October 24, 2008

## Field Data Sheets for Recreational Use Stream Surveys

### **Data Sheet A – Water Body Identification**

#### **I. Water Body Information** (for water body being surveyed)

Water Body Name (from USGS 7.5' quad):	Stevenson Bayou
Missouri Water Body Identification (WBID) Number:	3136
8-digit HUC:	0820201 New Madrid St. Johns
County(ies), Listed Upstream to Downstream:	Mississippi
Upstream Legal Description (from Table H):	31, 27 N, 17 E
Downstream Legal Description (from Table H):	33, 25 N, 16 E
Number of sites evaluated:	8
List all site numbers, <u>consecutively upstream to downstream</u> :	1.) Hwy I Bridge Downstream 3.) Co Rd 325 Downstream 5.) Co Rd 328 Upstream 7.) Co Rd 334 Upstream 2.) Co Rd 322 Upstream 4.) Hwy D Upstream 6.) Hwy DD bridge Upstream 8.) upstream at Co Rd 522
<b>Include a Site Location Map(s).</b> The map must include all requirements detailed in the <i>Missouri Recreational Use Attainability Analyses: Water Body Survey and Assessment Protocol</i> (Section IV.D.8.a).	

#### **II. Facility Information** (list all permitted discharges to this water body segment)

Facility Name(s) and Permit Number(s):
Anniston WWTP MO 0114928 Cheers TC (Shushine Tr Ctr) MO 6140048
Wyatt Municipal WWTF MO 0088536 Charleston WWT Lagoon MO 0120081
Cheers! Travel Center MO 6140055 Dark Cypress Enterprises MO 6822131

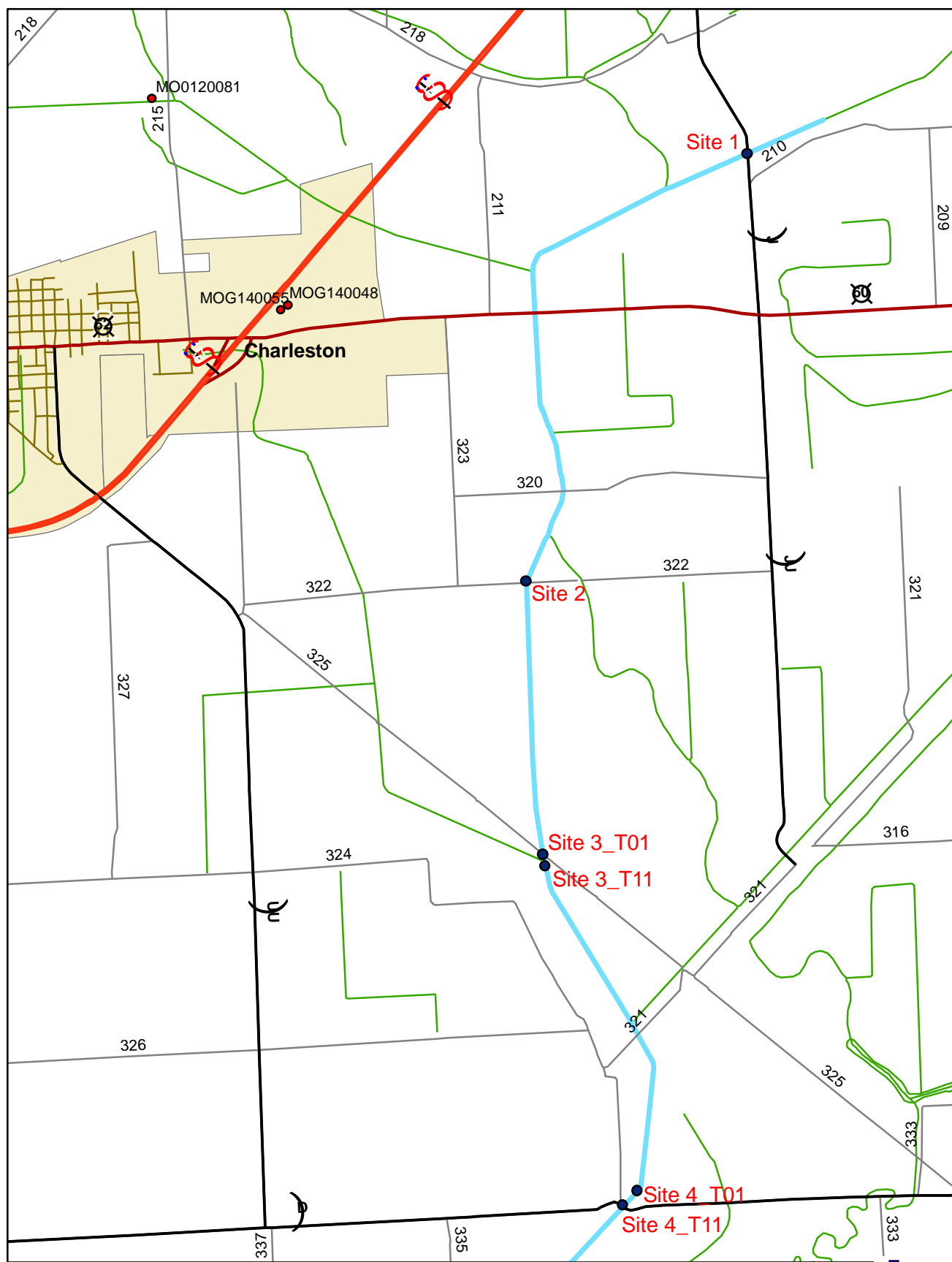
#### **III. UAA Surveyor** (please **PRINT** legibly)

Name of Surveyor:	Abigail L. Lynn	Telephone Number:	(573) 634-7078
Organization/Employer:	ERC		

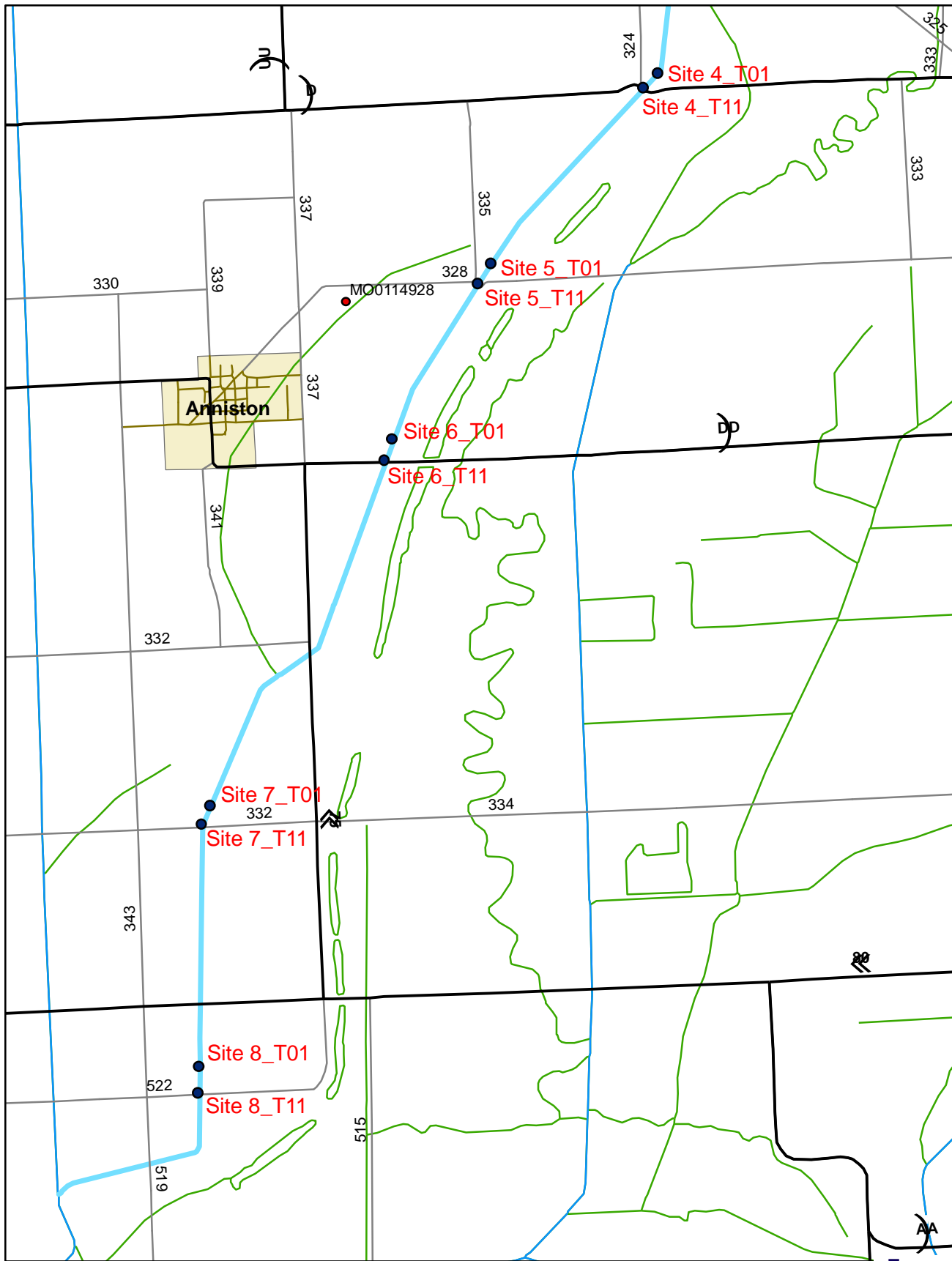
Please verify that you have completed all sections of all data sheets, checked all applicable boxes, provided a map (that includes all requirements listed in the *Missouri Recreational Use Attainability Analyses: Water Body Survey and Assessment Protocol*) and that this form is complete.

Signed: Abigail L. Lynn Date: 10/15/08

# WBID # 3135 - Stevenson Bayou Mississippi County



# WBID # 3135 - Stevenson Bayou Mississippi County



0 1,250 2,500 5,000 Meters



## Weather Conditions

Weather conditions ten days previous to stream assessment are listed in the tables below. The date(s) that the stream was assessed are shaded.

Data from the WeatherUnderground.com  
Cairo, IL

<b>Date</b>	<b>Precipitation (Inches)</b>	<b>Min. Temp (°F)</b>	<b>Max. Temp (°F)</b>	<b>Avg. Temp (°F)</b>
10/5/2008	0.00	46.0	84.0	65.0
10/6/2008	0.00	51.0	84.0	68.0
10/7/2008	0.00	60.0	73.0	66.0
10/8/2008	0.00	50.0	71.0	61.0
10/9/2008	0.40	42.0	78.0	60.0
10/10/2008	0.00	46.0	84.0	65.0
10/11/2008	0.00	55.0	86.0	70.0
10/12/2008	0.00	57.0	87.0	72.0
10/13/2008	0.00	66.0	82.0	74.0
10/14/2008	0.00	62.0	80.0	71.0
10/15/2008	0.00	60.0	86.0	73.0

WBID # 3135Site # 1**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>10/15/08 13:26</u>	Location Description (e.g., road crossing): <u>Hwy 1 Bridge Downstream</u>
Stream Name: <u>Stevenson Bayou</u>	
Current Weather Conditions: <u>76° clear</u>	Facility Name(s): <u>See Data Sheet A</u>
Weather Conditions for Past 10 days: <u>attached</u>	Permit Number(s): <u>See Data Sheet A</u>
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): <u>1650298149</u>	Northing (UTM Y): <u>4089985</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>8</u> Meters
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy: (EPE / FOM / PDOP) Meters

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>295</u>	<u>soff in deep mud / silt water</u>	<u>296</u>	<u>transect 1 Downstream</u>		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed\*:** (Uses actually observed at the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)				

Stream Name & WBID # Stevenson Bayou 3139Date of Survey 10/15/08Site # 1**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 2 of 3)**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:
Comments: <u>Farm Fields</u>				

**Evidence of Human Use\*:** (Attach photos and reference in "Photos" section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

**Substrate\*:** (These values should add up to 100%.)

% Cobble	% Gravel	% Sand	<u>50</u> % Silt	<u>50</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (Note amount of vegetation or algal growth at the assessment site.)

<u>90% Lilly Pads, Duck weed, emergent plants, submerged plants</u>
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**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Stream Name & WBID # Stevenson Bayou 3135

Date of Survey 10/15/08

Site # 1

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B – Site Characterization (Page 3 of 3)**

**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses.)


Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

- Did not look at whole segment because could not cross due to <sup>ice</sup>silt / mud depth  
 - Used pole + line method from Hwy 1 bridge because too dangerous to cross  
 - 2 pictures 1 GPS point  
 - Only able to step into stream 1-1.5 m out

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

Printed Names of Personnel Collecting Data: Alex Lynn & Travis Howell

Surveyor's Signature:  Date of Survey: 10/15/08

Organization: ERC Position: Field Manager

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet C - Field Survey Results

Stream Name: <u>Stevenson Bayou</u> Waterbody ID: <u>3135</u> Site #: <u>1</u>																<b>Dissolved Oxygen</b>						
Estimated Channel Incision: <u>0.25</u> (m) (height between low bank width and water)																Date: <u>10/15/2008</u> Time: <u>13:26</u>						
GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate ( <u>EPE</u> / PDOP / FOM)																Dissolved Oxygen: <u>7.8</u> (mg/L)						
<b>01</b> UTM X <u>16S0298149</u> UTM Y: <u>4089985</u> +/- <u>8</u> (meters)																Dissolved Oxygen: <u>93</u> (% sat)						
<b>11</b> UTM X: _____      UTM Y: _____      +/- _____ (meters)																Specific Cond: <u>365</u> (µS/cm)						
Average Stream Width: <u>14+</u> (meters)      Length of Survey Segment: <u>300</u> (meters)																Water Temperature: <u>23.86</u> (°C)						
(To determine Length of Reach)      (20x average stream width)																						
Field Staff: <u>Abby Lynn and Travis Howell (AL &amp; TH)</u>																						
<b>Transect Cross-Section</b>																						
<b>01</b>		<b>02</b>		<b>03</b>		<b>04</b>		<b>05</b>		<b>06</b>		<b>07</b>		<b>08</b>		<b>09</b>		<b>10</b>		<b>11</b>		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	1.42	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	2.84	0.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	4.26	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	5.68	0.45	0	0	0	Pole and line method Used - Dangerous to cross - deep mud/silt										0	0	0	0	0	0	
5	7.1	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	8.52	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	9.94	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	11.36	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	12.78	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Right Bank	14.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Feature Type	Run																					

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: Abigail L. Lynn      Date: 10/15/2008

WBID # 3135Site # 2**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)  
(must be completed for each site)

Date & Time: <u>10/15/08 13:45</u>	Location Description (e.g., road crossing): <u>Co Rd 322 upstream</u>
Stream Name: <u>Stevenson Bayou</u>	
Current Weather Conditions: <u>76° clear</u>	Facility Name(s): <u>See Data Sheet A</u>
Weather Conditions for Past 10 days: <u>attached</u>	Permit Number(s): <u>See Data Sheet A</u>
Official Drought Conditions at time of this survey (search DNR home page for “drought”): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters	
Site 11	Easting (UTM X): <u>1650295707</u>	Northing (UTM Y): <u>4086253</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>5</u>	Meters	

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>297</u>	<u>Deep mud + water at + - 1</u>	<u>298</u>	<u>transect 11 upstream</u>		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed\*:** (Uses actually observed at the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)				

Stream Name & WBID # Stevenson Bayou 3135Date of Survey 10/15/08Site # 2**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 2 of 3)**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:
Comments: <u>Farm fields</u>				

**Evidence of Human Use\*:** (Attach photos and reference in "Photos" section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

**Substrate\*:** (These values should add up to 100%.)

% Cobble	% Gravel	% Sand	<u>60</u> % Silt	<u>40</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (Note amount of vegetation or algal growth at the assessment site.)

<u>60% emergent Lilly Pads</u>
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**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>Black</u>
Bottom Deposit:	<input checked="" type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Stream Name & WBID # Stevenson Bayou 3135Date of Survey 10/15/08Site # 2**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 3 of 3)**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses.)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

- Unable to get in on downstream side due to steep slopes  
- Only able to make it 1-1.5 m across stream due to deep silt/mud  
- Too deep to cross had to use pole & line method  
- Too pic of stuff in deep silt

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Printed Names of Personnel Collecting Data: Abby Lynn & Travis HowellSurveyor's Signature: Abigail C. Lynn Date of Survey: 10/15/08Organization: ERC Position: Field Manager



# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet C - Field Survey Results

Stream Name: <u>Stevenson Bayou</u> Waterbody ID: <u>3135</u> Site #: <u>2</u>														<b>Dissolved Oxygen</b>								
Estimated Channel Incision: <u>0.3</u> (m) (height between low bank width and water)														Date: <u>10/15/2008</u> Time: <u>13:26</u>								
GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate ( <u>EPE</u> / PDOP / FOM)														Dissolved Oxygen: <u>7.26</u> (mg/L)								
<b>01</b> UTM X: _____ UTM Y: _____ +/- _____ (meters)														Dissolved Oxygen: <u>87.8</u> (% sat)								
<b>11</b> UTM X <u>16S0295907</u> UTM Y: <u>4086253</u> +/- <u>5</u> (meters)														Specific Cond: <u>359</u> (µS/cm)								
Average Stream Width: <u>11.9 +/-</u> (meters)      Length of Survey Segment: <u>280</u> (meters)														Water Temperature: <u>24.99</u> (°C)								
(To determine Length of Reach)      (20x average stream width)																						
Field Staff: <u>Abby Lynn and Travis Howell (AL &amp; TH)</u>																						
<b>Transect Cross-Section</b>																						
<b>01</b>		<b>02</b>		<b>03</b>		<b>04</b>		<b>05</b>		<b>06</b>		<b>07</b>		<b>08</b>		<b>09</b>		<b>10</b>		<b>11</b>		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0											0		0		1.19	0.15	
2	0	0	0	0	0											0		0		2.38	0.2	
3	0	0	0	0	0											0		0		3.57	0.28	
4	0	0	0	0		Too deep to cross, used pole and line method										0		0		4.76	0.32	
5	0	0	0	0		(mud/silt very deep)										0		0		5.95	0.36	
6	0	0	0	0												0		0		7.14	0.36	
7	0	0	0	0												0		0		8.33	0.38	
8	0	0	0	0												0		0		9.52	0.42	
9	0	0	0	0												0		0		10.71	0.2	
<b>Right Bank</b>		0	0		0		0		0		0		0		0		0		0		11.9	0
<b>Feature Type</b>																				Run		

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: Abigail L. Lynn      Date: 10/15/2008

WBID # 3135Site # 3**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>10/15/08 14:11</u>	Location Description (e.g., road crossing): <u>Co Rd 325 Downstream</u>
Stream Name: <u>Stevenson Bayou</u>	
Current Weather Conditions: <u>partly cloudy, 76°</u>	Facility Name(s): <u>See Data Sheet A</u>
Weather Conditions for Past 10 days: <u>attached</u>	Permit Number(s): <u>See Data Sheet A</u>
Official Drought Conditions at time of this survey (search DNR home page for “drought”): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): <u>1650295906</u>	Northing (UTM Y): <u>4083777</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>6</u> Meters
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy: (EPE / FOM / PDOP) Meters

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>299</u>	<u>transect 1 Downstream</u>	<u>see comments pg 3</u>			
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed\*:** (Uses actually observed at the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)				

Stream Name & WBID # Stevenson Bayou 3139Date of Survey 10/15/08Site # 3**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 2 of 3)**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:

Comments:  
farm fields - some trees

**Evidence of Human Use\*:** (Attach photos and reference in "Photos" section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

**Substrate\*:** (These values should add up to 100%.)

% Cobble	% Gravel	% Sand	<u>60</u> % Silt	<u>40</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (Note amount of vegetation or algal growth at the assessment site.)

large masses on btm of stream bed  
40%+ long strands filamentous algae

**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input checked="" type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>black</u>
Bottom Deposit:	<input checked="" type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Stream Name & WBID # Stevenson Bayou 3139

Date of Survey 10/15/08

Site # 3

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B – Site Characterization** (Page 3 of 3)

**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses.)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

- Unable to go beyond transect # 7 due to "high high" deep silt + mud
- Unable to take pictures or GPS at transect 11 because could not reach the location
- Also staff unable to take a picture of staff in Bayou because of steep banks + unavailability of camera

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

Printed Names of Personnel Collecting Data: Abigail Lynn + Travis Howell

Surveyor's Signature: Abigail Lynn Date of Survey: 10/15/08

Organization: ERC Position: Field Manager

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet C - Field Survey Results

Stream Name: <u>Stevenson Bayou</u> Waterbody ID: <u>3135</u> Site #: <u>3</u>														<b>Dissolved Oxygen</b>								
Estimated Channel Incision: <u>0.4</u> (m) (height between low bank width and water)														Date: <u>10/15/2008</u> Time: <u>14:11</u>								
GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate ( <u>EPE</u> / PDOP / FOM)														Dissolved Oxygen: <u>9.77</u> (mg/L)								
<b>01</b> UTM X <u>16S0295906</u> UTM Y: <u>4083777</u> +/- <u>6</u> (meters)														Dissolved Oxygen: <u>119.6</u> (% sat)								
<b>11</b> UTM X: _____      UTM Y: _____      +/- _____ (meters)														Specific Cond: <u>382</u> (µS/cm)								
Average Stream Width: <u>6</u> (meters)      Length of Survey Segment: <u>150</u> (meters)														Water Temperature: <u>25.65</u> (°C)								
(To determine Length of Reach)      (20x average stream width)																						
Field Staff: <u>Abby Lynn and Travis Howell (AL &amp; TH)</u>																						
<b>Transect Cross-Section</b>																						
<b>01</b>		<b>02</b>		<b>03</b>		<b>04</b>		<b>05</b>		<b>06</b>		<b>07</b>		<b>08</b>		<b>09</b>		<b>10</b>		<b>11</b>		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.39	0.11	0.44	0.18	0.27	0.15	0.72	0.19	0.66	0.14	0.73	0.15	0.68	0.17	0							
2	0.78	0.18	0.88	0.26	0.54	0.18	1.44	0.22	1.32	0.17	1.46	0.27	1.36	0.2	0							
3	1.17	0.35	1.32	0.31	0.81	0.26	2.16	0.28	1.98	0.14	2.19	0.22	2.04	0.2	0							
4	1.56	0.42	1.76	0.29	1.08	0.27	2.88	0.19	2.64	0.13	2.92	0.23	2.72	0.15	0	Mud too deep to continue segment						
5	1.95	0.36	2.2	0.3	1.35	0.24	3.6	0.26	3.3	0.24	3.65	0.33	3.4	0.2	0							
6	2.34	0.34	2.64	0.25	1.62	0.2	4.32	0.32	3.96	0.21	4.38	0.2	4.08	0.27	0							
7	2.73	0.24	3.08	0.16	1.89	0.19	5.04	0.25	4.62	0.15	5.11	0.21	4.76	0.26	0							
8	3.12	0.15	3.52	0.12	2.16	0.13	5.76	0.2	5.28	0.12	5.84	0.22	5.44	0.28	0							
9	3.51	0.07	3.96	0.11	2.43	0.06	6.48	0.09	5.94	0.08	6.57	0.16	6.12	0.16	0							
Right Bank	3.9	0	4.4	0	2.7	0	7.2	0	6.6	0	7.3	0	6.8	0		0		0		0		0
Feature Type	Run		Run		Run		Run		Run		Run		Run									
(riffle, run, or pool)																						

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: Abigail L. Lynn      Date: 10/15/2008

WBID # 3135Site # 4**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>10/15/08 14:41</u>	Location Description (e.g., road crossing):
Stream Name: <u>Stevenson Bayou</u>	<u>Hwy D Upstream</u>
Current Weather Conditions: <u>partly cloudy 75°</u>	Facility Name(s): <u>See Data Sheet A</u>
Weather Conditions for Past 10 days: <u>attached</u>	Permit Number(s): <u>See Data Sheet A</u>
Official Drought Conditions at time of this survey (search DNR home page for "drought"):	
No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): <u>1650296865</u>	Northing (UTM Y): <u>4090688</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>6</u>	Meters	
Site 11	Easting (UTM X): <u>1650296426</u>	Northing (UTM Y): <u>4090566</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>5</u>	Meters	

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>300</u>	<u>transect 11 upstream</u>	<u>301</u>	<u>beaver dam near transect #1</u>	<u>302</u>	<u>transect 1 downstream also beaver dam</u>
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed\*:** (Uses actually observed at the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)				

Stream Name & WBID # Stevenson Bayou 3139Date of Survey 10/15/08Site # 4**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 2 of 3)**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input checked="" type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:
Comments: <u>Farm Fields</u>				

**Evidence of Human Use\*:** (Attach photos and reference in "Photos" section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

**Substrate\*:** (These values should add up to 100%.)

% Cobble	% Gravel	<u>30</u> % Sand	<u>40</u> % Silt	<u>30</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (Note amount of vegetation or algal growth at the assessment site.)

<u>40-50%</u> <u>Long strands filamentous algae</u>
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**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Stream Name & WBID # Stevenson Bayou 3139Date of Survey 10/15/08Site # 2**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 3 of 3)**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses.)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

- Beaver dam near Connect #1 - animals present (pre taken)
- Mud/silt not near as deep this site
- Did assessment Upstream because slopes were too steep downstream

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**Printed Names of Personnel Collecting Data: Abigail Lynn & Travis HowellSurveyor's Signature: Abigail Lynn Date of Survey: 10/15/08Organization: ERC Position: Field Manager



# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet C - Field Survey Results

Stream Name: <u>Stevenson Bayou</u> Waterbody ID: <u>3135</u> Site #: <u>4</u>														<b>Dissolved Oxygen</b>								
Estimated Channel Incision: <u>0.1</u> (m) (height between low bank width and water)														Date: <u>10/15/2008</u> Time: <u>14:41</u>								
GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate ( <b>EPE</b> / PDOP / FOM)														Dissolved Oxygen: <u>10.66</u> (mg/L)								
<b>01</b> UTM X <u>16S0296565</u> UTM Y: <u>4080688</u> +/- <u>6</u> (meters)														Dissolved Oxygen: <u>126.9</u> (% sat)								
<b>11</b> UTM X <u>16S0296426</u> UTM Y: <u>4080566</u> +/- <u>5</u> (meters)														Specific Cond: <u>352</u> (µS/cm)								
Average Stream Width: <u>9</u> (meters)      Length of Survey Segment: <u>180</u> (meters)														Water Temperature: <u>24.27</u> (°C)								
(To determine Length of Reach)      (20x average stream width)																						
Field Staff: <u>Abby Lynn and Travis Howell (AL &amp; TH)</u>																						
<b>Transect Cross-Section</b>																						
<b>01</b>		<b>02</b>		<b>03</b>		<b>04</b>		<b>05</b>		<b>06</b>		<b>07</b>		<b>08</b>		<b>09</b>		<b>10</b>		<b>11</b>		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.48	0.53	0.43	0.06	0.62	0.11	0.94	0.23	0.89	0.36	0.91	0.07	0.77	0.12	0.73	0.23	0.78	0.33	0.71	0.24	0.77	0.12
2	0.96	0.52	0.86	0.14	1.24	0.22	1.88	0.28	1.78	0.46	1.82	0.27	1.54	0.27	1.46	0.29	1.56	0.34	1.42	0.35	1.54	0.27
3	1.44	0.5	1.29	0.25	1.86	0.35	2.82	0.32	2.67	0.72	2.73	0.47	2.31	0.43	2.19	0.24	2.34	0.48	2.13	0.39	2.31	0.26
4	1.92	0.5	1.72	0.4	2.48	0.38	3.76	0.27	3.56	0.76	3.64	0.66	3.08	0.48	2.92	0.3	3.12	0.61	2.84	0.35	3.08	0.22
5	2.4	0.48	2.15	0.54	3.1	0.38	4.7	0.24	4.45	0.79	4.55	0.59	3.85	0.5	3.65	0.38	3.9	0.6	3.55	0.37	3.85	0.22
6	2.88	0.41	2.58	0.55	3.72	0.43	5.64	0.27	5.34	0.82	5.46	0.55	4.62	0.56	4.38	0.41	4.68	0.6	4.26	0.37	4.62	0.25
7	3.36	0.35	3.01	0.47	4.34	0.4	6.58	0.36	6.23	0.81	6.37	0.56	5.39	0.56	5.11	0.52	5.46	0.59	4.97	0.38	5.39	0.25
8	3.84	0.33	3.44	0.3	4.96	0.28	7.52	0.38	7.12	0.73	7.28	0.46	6.16	0.29	5.84	0.36	6.24	0.54	5.68	0.34	6.16	0.25
9	4.32	0.12	3.87	0.46	5.58	0.14	8.46	0.13	8.01	0.39	8.19	0.2	6.93	0.08	6.57	0.21	7.02	0.25	6.39	0.17	6.93	0.09
Right Bank	4.8	0	4.3	0	6.2	0	9.4	0	8.9	0	9.1	0	7.7	0	7.3	0	7.8	0	7.1	0	7.7	0
Feature Type	Run		Run		Run		Run		Run		Run		Run		Run		Run		Run		Run	
(riffle, run, or pool)																						

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: Abigail L. Lynn      Date: 10/15/2008

WBID # 3135Site # 5**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>10/15/08 19:37</u>	Location Description (e.g., road crossing): <u>Co Rd 328 upstream</u>
Stream Name: <u>Stewenson Bayou</u>	
Current Weather Conditions: <u>cloudy 75°</u>	Facility Name(s): <u>See Data Sheet A</u>
Weather Conditions for Past 10 days: <u>attached</u>	Permit Number(s): <u>See Data Sheet A</u>
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): <u>1650294955</u>	Northing (UTM Y): <u>4079068</u>	Horizontal Accuracy: <u>(EPE / FOM / PDOP) 8</u> Meters		
Site 11	Easting (UTM X): <u>1650294824</u>	Northing (UTM Y): <u>4078896</u>	Horizontal Accuracy: <u>(EPE / FOM / PDOP) 6</u> Meters		

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>303</u>	<u>transect 11 upstream</u>	<u>304</u>	<u>transect 1 downstream</u>		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed\*:** (Uses actually observed at the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)				

Stream Name & WBID # Stevenson Bayou 3139Date of Survey 10/15/08Site # 5**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 2 of 3)**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:
Comments: <u>Farm Fields</u>				

**Evidence of Human Use\*:** (Attach photos and reference in "Photos" section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

**Substrate\*:** (These values should add up to 100%.)

% Cobble	% Gravel	<u>70</u> % Sand	<u>20</u> % Silt	<u>10</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (Note amount of vegetation or algal growth at the assessment site.)

<u>60-70% algae cover on bottom</u> <u>10% long strands filamentous algae</u>
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**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Stream Name & WBID # Stevenson Bayou 3135

Date of Survey 10/15/08

Site # 5

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B – Site Characterization** (Page 3 of 3)

**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses.)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

*None*

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

Printed Names of Personnel Collecting Data: Abigail Lynn & Travis Howell

Surveyor's Signature: [Signature] Date of Survey: 10/15/08

Organization: ERC Position: Field Manager

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet C - Field Survey Results

Stream Name: <u>Stevenson Bayou</u> Waterbody ID: <u>3135</u> Site #: <u>5</u>																<b>Dissolved Oxygen</b>						
Estimated Channel Incision: <u>0.1</u> (m) (height between low bank width and water)																Date: <u>10/15/2008</u> Time: <u>15:37</u>						
GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate ( <b>EPE</b> / PDOP / FOM)																Dissolved Oxygen: <u>10.16</u> (mg/L)						
<b>01</b> UTM X <u>16S0294955</u> UTM Y: <u>4079068</u> +/- <u>8</u> (meters)																Dissolved Oxygen: <u>124.3</u> (% sat)						
<b>11</b> UTM X <u>16S0294824</u> UTM Y: <u>4078896</u> +/- <u>6</u> (meters)																Specific Cond: <u>347</u> (µS/cm)						
Average Stream Width: <u>10.5</u> (meters)      Length of Survey Segment: <u>220</u> (meters)																Water Temperature: <u>25.59</u> (°C)						
(To determine Length of Reach)      (20x average stream width)																						
Field Staff: <u>Abby Lynn and Travis Howell (AL &amp; TH)</u>																						
<b>Transect Cross-Section</b>																						
<b>01</b>		<b>02</b>		<b>03</b>		<b>04</b>		<b>05</b>		<b>06</b>		<b>07</b>		<b>08</b>		<b>09</b>		<b>10</b>		<b>11</b>		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.89	0.17	1.09	0.14	1.04	0.25	0.92	0.09	0.9	0.29	1.02	0.26	1.06	0.09	0.99	0.12	0.93	0.15	0.98	0.25	1.15	0.33
2	1.78	0.28	2.18	0.23	2.08	0.27	1.84	0.18	1.8	0.35	2.04	0.3	2.12	0.08	1.98	0.17	1.86	0.31	1.96	0.36	2.3	0.36
3	2.67	0.25	3.27	0.22	3.12	0.26	2.76	0.29	2.7	0.34	3.06	0.25	3.18	0.12	2.97	0.18	2.79	0.42	2.94	0.3	3.45	0.27
4	3.56	0.24	4.36	0.15	4.16	0.2	3.68	0.29	3.6	0.28	4.08	0.21	4.24	0.1	3.96	0.19	3.72	0.38	3.92	0.31	4.6	0.28
5	4.45	0.19	5.45	0.1	5.2	0.21	4.6	0.23	4.5	0.26	5.1	0.16	5.3	0.16	4.95	0.17	4.65	0.32	4.9	0.35	5.75	0.25
6	5.34	0.19	6.54	0.07	6.24	0.17	5.52	0.29	5.4	0.2	6.12	0.14	6.36	0.24	5.94	0.21	5.58	0.23	5.88	0.35	6.9	0.24
7	6.23	0.19	7.63	0.06	7.28	0.12	6.44	0.33	6.3	0.2	7.14	0.11	7.42	0.36	6.93	0.29	6.51	0.2	6.86	0.34	8.05	0.21
8	7.12	0.29	8.72	0.12	8.32	0.1	7.36	0.33	7.2	0.19	8.16	0.12	8.48	0.4	7.92	0.36	7.44	0.19	7.84	0.3	9.2	0.15
9	8.01	0.13	9.81	0.15	9.36	0.12	8.28	0.29	8.1	0.1	9.18	0.09	9.54	0.32	8.91	0.33	8.37	0.18	8.82	0.29	10.35	0.1
Right Bank	8.9	0	10.9	0	10.4	0	9.2	0	9	0	10.2	0	10.6	0	9.9	0	9.3	0	9.8	0	11.5	0
Feature Type	Run		Run		Run		Run		Run		Run		Run		Run		Run		Run		Run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: Abigail L. Lynn

Date: 10/15/2008

WBID # 3135Site # 6**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>10/15/08 16:15</u>	Location Description (e.g., road crossing):
Stream Name: <u>Stevenson Bayou</u>	<u> Hwy DD bridge Upstream</u>
Current Weather Conditions: <u>74° cloudy</u>	Facility Name(s): <u>See Data Sheet A</u>
Weather Conditions for Past 10 days: <u>attached</u>	Permit Number(s): <u>See Data Sheet A</u>
Official Drought Conditions at time of this survey (search DNR home page for "drought"):	
No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): <u>1650293964</u>	Northing (UTM Y): <u>4077541</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>6</u>	Meters	
Site 11	Easting (UTM X): <u>1650293887</u>	Northing (UTM Y): <u>4077356</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>6</u>	Meters	

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>305</u>	<u>transect 1 Downstream</u>	<u>306</u>	<u>transect 11 Upstream</u>		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed\*:** (Uses actually observed at the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)				

Stream Name & WBID # Stemenson Bayou 3135Date of Survey 10/15/08Site # 6**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 2 of 3)**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:
Comments: <u>Farm fields</u>				

**Evidence of Human Use\*:** (Attach photos and reference in "Photos" section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

**Substrate\*:** (These values should add up to 100%.)

% Cobble	% Gravel	<u>80</u> % Sand	<u>10</u> % Silt	<u>10</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (Note amount of vegetation or algal growth at the assessment site.)

<u>60-70% algae mats + long strands of filamentous algae</u>
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**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Stream Name & WBID # Stevenson Bayou 3135Date of Survey 10/15/08Site # 6**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 3 of 3)**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses.)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

- Upstream side had easier access - reason for  
going upstream of bridge

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Printed Names of Personnel Collecting Data: Abigail Lynn & Travis HowellSurveyor's Signature: Abigail Lynn Date of Survey: 10/15/08Organization: ERC Position: Field Manager



# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet C - Field Survey Results

Stream Name: <u>Stevenson Bayou</u> Waterbody ID: <u>3135</u> Site #: <u>6</u>														<b>Dissolved Oxygen</b>								
Estimated Channel Incision: <u>0.1</u> (m) (height between low bank width and water)														Date: <u>10/15/2008</u> Time: <u>16:15</u>								
GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate ( <u>EPE</u> / PDOP / FOM)														Dissolved Oxygen: <u>11.63</u> (mg/L)								
<b>01</b> UTM X <u>16S0293964</u> UTM Y: <u>4077541</u> +/- <u>6</u> (meters)														Dissolved Oxygen: <u>141</u> (% sat)								
<b>11</b> UTM X <u>16S0293887</u> UTM Y: <u>4077356</u> +/- <u>6</u> (meters)														Specific Cond: <u>335</u> (µS/cm)								
Average Stream Width: <u>9.5</u> (meters)      Length of Survey Segment: <u>200</u> (meters)														Water Temperature: <u>25.08</u> (°C)								
(To determine Length of Reach)      (20x average stream width)																						
Field Staff: <u>Abby Lynn and Travis Howell (AL &amp; TH)</u>																						
<b>Transect Cross-Section</b>																						
<b>01</b>		<b>02</b>		<b>03</b>		<b>04</b>		<b>05</b>		<b>06</b>		<b>07</b>		<b>08</b>		<b>09</b>		<b>10</b>		<b>11</b>		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.69	0.28	0.91	0.12	1.02	0.12	1.1	0.2	0.8	0.15	0.89	0.35	1.07	0.17	0.89	0.09	0.93	0.18	0.79	0.23	0.78	0.1
2	1.38	0.29	1.82	0.21	2.04	0.12	2.2	0.17	1.6	0.29	1.78	0.45	2.14	0.22	1.78	0.15	1.86	0.23	1.58	0.31	1.56	0.25
3	2.07	0.29	2.73	0.31	3.06	0.1	3.3	0.14	2.4	0.47	2.67	0.38	3.21	0.28	2.67	0.26	2.79	0.24	2.37	0.34	2.34	0.28
4	2.76	0.26	3.64	0.22	4.08	0.19	4.4	0.13	3.2	0.5	3.56	0.34	4.28	0.29	3.56	0.37	3.72	0.25	3.16	0.36	3.12	0.3
5	3.45	0.24	4.55	0.15	5.1	0.24	5.5	0.13	4	0.51	4.45	0.35	5.35	0.3	4.45	0.27	4.65	0.24	3.95	0.35	3.9	0.37
6	4.14	0.24	5.46	0.18	6.12	0.26	6.6	0.15	4.8	0.36	5.34	0.38	6.42	0.32	5.34	0.3	5.58	0.24	4.74	0.38	4.68	0.34
7	4.83	0.2	6.37	0.23	7.14	0.27	7.7	0.17	5.6	0.4	6.23	0.38	7.49	0.36	6.23	0.29	6.51	0.25	5.53	0.4	5.46	0.36
8	5.52	0.14	7.28	0.33	8.16	0.3	8.8	0.22	6.4	0.4	7.12	0.35	8.56	0.38	7.12	0.34	7.44	0.23	6.32	0.42	6.24	0.4
9	6.21	0.16	8.19	0.28	9.18	0.24	9.9	0.23	7.2	0.27	8.01	0.3	9.63	0.27	8.01	0.22	8.37	0.13	7.11	0.26	7.02	0.28
Right Bank	6.9	0	9.1	0	10.2	0	11	0	8	0	8.9	0	10.7	0	8.9	0	9.3	0	7.9	0	7.8	0
Feature Type	Run		Run		Run		Run		Run		Run		Run		Run		Run		Run		Run	
(riffle, run, or pool)																						

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: Abigail L. Lynn      Date: 10/15/2008

WBID # 3135Site # 7**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)  
(must be completed for each site)

Date & Time: <u>10/15/08 16:49</u>	Location Description (e.g., road crossing): <u>Co Rd 334 Upstream</u>
Stream Name: <u>Stevenson Bayou</u>	
Current Weather Conditions: <u>73° cloudy</u>	Facility Name(s): <u>See Data Sheet A</u>
Weather Conditions for Past 10 days: <u>attached</u>	Permit Number(s): <u>See Data Sheet A</u>
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): <u>1650292118</u>	Northing (UTM Y): <u>4074347</u>	Horizontal Accuracy: <u>(EPE) / FOM / PDOP</u> <u>6</u>	Meters	
Site 11	Easting (UTM X): <u>1650292031</u>	Northing (UTM Y): <u>4074180</u>	Horizontal Accuracy: <u>(EPE) / FOM / PDOP</u> <u>6</u>	Meters	

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>307</u>	<u>Trash at bridge very large amounts</u>	<u>308</u>	<u>transect 11 Upstream</u>	<u>309</u>	<u>transect 1 Downstream</u>
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed\*:** (Uses actually observed at the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)				

Stream Name & WBID # Stemenson Bayou 3135Date of Survey 10/15/08Site # 7**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 2 of 3)**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:
Comments: <u>Farm fields</u> <u>Trash dumping in stream</u>				

**Evidence of Human Use\*:** (Attach photos and reference in "Photos" section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

**Substrate\*:** (These values should add up to 100%.)

% Cobble	% Gravel	<u>50</u> % Sand	<u>40</u> % Silt	<u>10</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (Note amount of vegetation or algal growth at the assessment site.)

<u>40-50% algae + long strands of filamentous algae</u>
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**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Stream Name & WBID # Stevenson Bayou 3135

Date of Survey 10/15/08

Site # 7

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B – Site Characterization** (Page 3 of 3)

**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses.)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

- Did not enter downstream or survey downstream due to large amounts of trash

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

Printed Names of Personnel Collecting Data: Abigail Lynn & Travis Howell

Surveyor's Signature: Abigail Lynn Date of Survey: 10/15/08

Organization: ERC Position: Field Manager

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet C - Field Survey Results

Stream Name: <u>Stevenson Bayou</u> Waterbody ID: <u>3135</u> Site #: <u>7</u>																<b>Dissolved Oxygen</b>						
Estimated Channel Incision: <u>0.4</u> (m) (height between low bank width and water)																Date: <u>10/15/2008</u> Time: <u>16:49</u>						
GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate ( <b>EPE</b> / PDOP / FOM)																Dissolved Oxygen: <u>6.88</u> (mg/L)						
<b>01</b> UTM X <u>16S0292118</u> UTM Y: <u>4074346</u> +/- <u>6</u> (meters)																Dissolved Oxygen: <u>81.3</u> (% sat)						
<b>11</b> UTM X <u>16S0292031</u> UTM Y: <u>4074180</u> +/- <u>6</u> (meters)																Specific Cond: <u>347</u> (µS/cm)						
Average Stream Width: <u>9</u> (meters)      Length of Survey Segment: <u>180</u> (meters)																Water Temperature: <u>23.64</u> (°C)						
(To determine Length of Reach)      (20x average stream width)																						
Field Staff: <u>Abby Lynn and Travis Howell (AL &amp; TH)</u>																						
<b>Transect Cross-Section</b>																						
<b>01</b>		<b>02</b>		<b>03</b>		<b>04</b>		<b>05</b>		<b>06</b>		<b>07</b>		<b>08</b>		<b>09</b>		<b>10</b>		<b>11</b>		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.87	0.09	0.56	0.11	0.4	0.07	0.81	0.08	8.8	0.1	0.93	0.17	0.93	0.25	0.97	0.12	0.97	0.21	0.88	0.24	0.89	0.27
2	1.74	0.1	1.12	0.37	0.8	0.06	1.62	0.08	17.6	0.4	1.86	0.19	1.86	0.37	1.94	0.16	1.94	0.34	1.76	0.34	1.78	0.4
3	2.61	0.26	1.68	0.64	1.2	0.31	2.43	0.12	26.4	0.48	2.79	0.27	2.79	0.53	2.91	0.28	2.91	0.5	2.64	0.51	2.67	0.41
4	3.48	0.4	2.24	0.76	1.6	0.52	3.24	0.27	35.2	0.49	3.72	0.39	3.72	0.58	3.88	0.46	3.88	0.54	3.52	0.61	3.56	0.48
5	4.35	0.44	2.8	0.76	2	0.61	4.05	0.35	44	0.54	4.65	0.59	4.65	0.37	4.85	0.58	4.85	0.48	4.4	0.64	4.45	0.6
6	5.22	0.35	3.36	0.7	2.4	0.6	4.86	0.57	52.8	0.63	5.58	0.72	5.58	0.4	5.82	0.6	5.82	0.53	5.28	0.66	5.34	0.56
7	6.09	0.39	3.92	0.61	2.8	0.63	5.67	0.72	61.6	0.6	6.51	0.71	6.51	0.43	6.79	0.6	6.79	0.64	6.16	0.7	6.23	0.42
8	6.96	0.33	4.48	0.38	3.2	0.62	6.48	0.77	70.4	0.37	7.44	0.55	7.44	0.42	7.76	0.53	7.76	0.43	7.04	0.65	7.12	0.31
9	7.83	0.22	5.04	0.25	3.6	0.55	7.29	0.82	79.2	0.25	8.37	0.4	8.37	0.32	8.73	0.34	8.73	0.21	7.92	0.38	8.01	0.3
Right Bank	8.7	0	5.6	0	4	0	8.1	0	88	0	9.3	0	9.3	0	9.7	0	9.7	0	8.8	0	8.9	0
Feature Type	Run		Run		Run		Run		Run		Run		Run		Run		Run		Run		Run	
(riffle, run, or pool)																						

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: Abigail L. Lynn      Date: 10/15/2008

WBID # 3135Site # 8**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>10/15/08</u> <u>17:24</u>	Location Description (e.g., road crossing):
Stream Name: <u>Stevenson Branch</u>	<u>Upstream at Co Rd 522</u>
Current Weather Conditions:	Facility Name(s): <u>See Data Sheet A</u>
Weather Conditions for Past 10 days: <u>attached</u>	Permit Number(s): <u>See Data Sheet A</u>
Official Drought Conditions at time of this survey (search DNR home page for "drought"):	
No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): <u>1650291971</u>	Northing (UTM Y): <u>4071998</u>	Horizontal Accuracy: (EPE) / FOM / PDOP	<u>8</u>	Meters
Site 11	Easting (UTM X): <u>1650291848</u>	Northing (UTM Y): <u>4071764</u>	Horizontal Accuracy: (EPE) / FOM / PDOP	<u>8</u>	Meters

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>310</u>	<u>transect 11 upstream</u>	<u>311</u>	<u>transect 1 downstream</u>		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed\*:** (Uses actually observed at the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)				

Stream Name & WBID # Stemmons Bayou 3135Date of Survey 10/15/08Site # 8**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 2 of 3)**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:
Comments: <u>farm fields</u>				

**Evidence of Human Use\*:** (Attach photos and reference in "Photos" section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

**Substrate\*:** (These values should add up to 100%.)

% Cobble	% Gravel	<u>70</u> % Sand	<u>20</u> % Silt	<u>10</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (Note amount of vegetation or algal growth at the assessment site.)

<u>30-40% algae cover + filamentous algae</u> <u>scums</u>
---------------------------------------------------------------

**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Stream Name & WBID # Stevenson Bayou 3135

Date of Survey 10/15/08

Site # 8

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B – Site Characterization** (Page 3 of 3)

**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses.)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

*None*

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

Printed Names of Personnel Collecting Data: Abigail Lyon & Travis Howell

Surveyor's Signature: *Abigail Lyon* Date of Survey: 10/15/08

Organization: ERC Position: Field Manager



# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet C - Field Survey Results

Stream Name: <u>Stevenson Bayou</u> Waterbody ID: <u>3135</u> Site #: <u>8</u>  Estimated Channel Incision: <u>0.3</u> (m) (height between low bank width and water)  GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate ( <u>EPE</u> / PDOP / FOM) <b>01</b> UTM X <u>16S0291871</u> UTM Y: <u>4071998</u> +/- <u>8</u> (meters) <b>11</b> UTM X <u>16S0291848</u> UTM Y: <u>4071764</u> +/- <u>8</u> (meters)  Average Stream Width: <u>12</u> (meters)      Length of Survey Segment: <u>240</u> (meters) (To determine Length of Reach)      (20x average stream width)  Field Staff: <u>Abby Lynn and Travis Howell (AL &amp; TH)</u>														Dissolved Oxygen					
														Date: <u>10/15/2008</u>		Time: <u>17:24</u>			
														Dissolved Oxygen: <u>6.9</u> (mg/L)					
														Dissolved Oxygen: <u>81.5</u> (% sat)					
														Specific Cond: <u>336</u> (µS/cm)					
														Water Temperature: <u>23.71</u> (°C)					

Transect Cross-Section																						
01		02		03		04		05		06		07		08		09		10		11		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	1.11	0.14	0.85	0.22	1.09	0.34	1.03	0.09	1.07	0.17	1.08	0.24	1.1	0.16	1.05	0.6	1.26	0.38	1.28	0.14	1.46	0.22
2	2.22	0.18	1.7	0.4	2.18	0.54	2.06	0.1	2.14	0.18	2.16	0.6	2.2	0.25	2.1	0.59	2.52	0.5	2.56	0.15	2.92	0.14
3	3.33	0.14	2.55	0.79	3.27	0.58	3.09	0.12	3.21	0.22	3.24	0.55	3.3	0.23	3.15	0.5	3.78	0.51	3.84	0.12	4.38	0.14
4	4.44	0.15	3.4	0.74	4.36	0.52	4.12	0.16	4.28	0.30	4.32	0.49	4.4	0.24	4.2	0.44	5.04	0.56	5.12	0.19	5.84	0.15
5	5.55	0.22	4.25	0.63	5.45	0.51	5.15	0.32	5.35	0.35	5.4	0.46	5.5	0.25	5.25	0.44	6.3	0.51	6.4	0.09	7.3	0.14
6	6.66	0.26	5.1	0.71	6.54	0.46	6.18	0.4	6.42	0.42	6.48	0.4	6.6	0.25	6.3	0.44	7.56	0.33	7.68	0.14	8.76	0.1
7	7.77	0.33	5.95	0.71	7.63	0.45	7.21	0.45	7.49	0.34	7.56	0.4	7.7	0.27	7.35	0.39	8.82	0.39	8.96	0.19	10.22	0.09
8	8.88	0.4	6.8	0.62	8.72	0.54	8.24	0.4	8.56	0.37	8.64	0.41	8.8	0.28	8.4	0.45	10.08	0.36	10.24	0.28	11.68	0.12
9	9.99	0.34	7.65	0.53	9.81	0.4	9.27	0.48	9.63	0.26	9.72	0.28	9.9	0.19	9.45	0.38	11.34	0.21	11.52	0.2	13.14	0.17
10	11.1	0	8.5	0	10.9	0	10.3	0	10.7	0	10.8	0	11	0	10.5	0	12.6	0	12.8	0	14.6	0
Run		Run		Run		Run		Run		Run		Run		Run		Run		Run		Run		

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

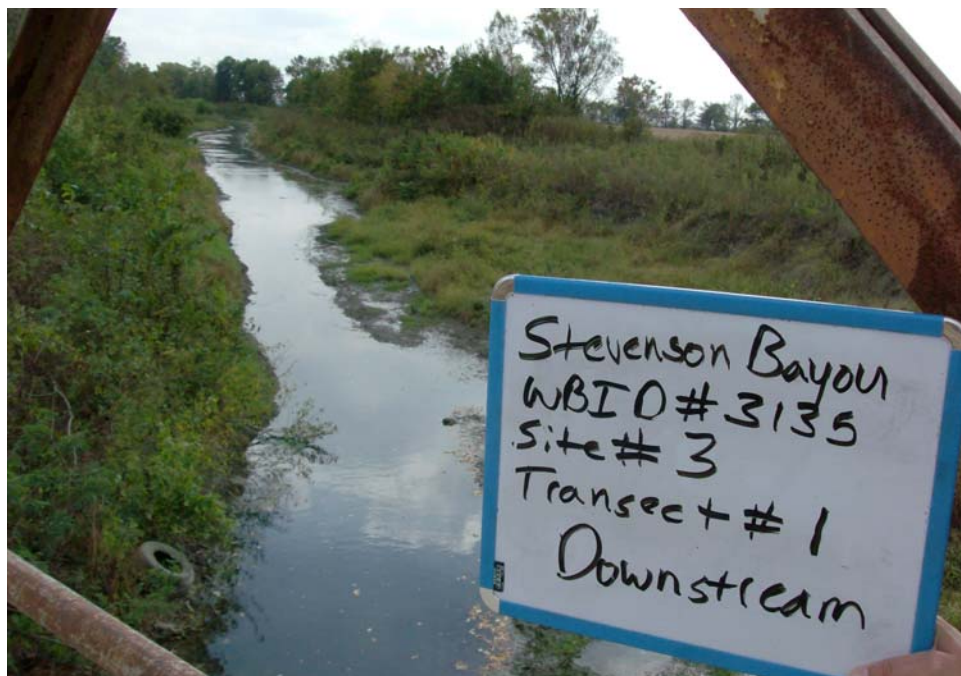
All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: Abigail L. Lynn

Date: 10/15/2008



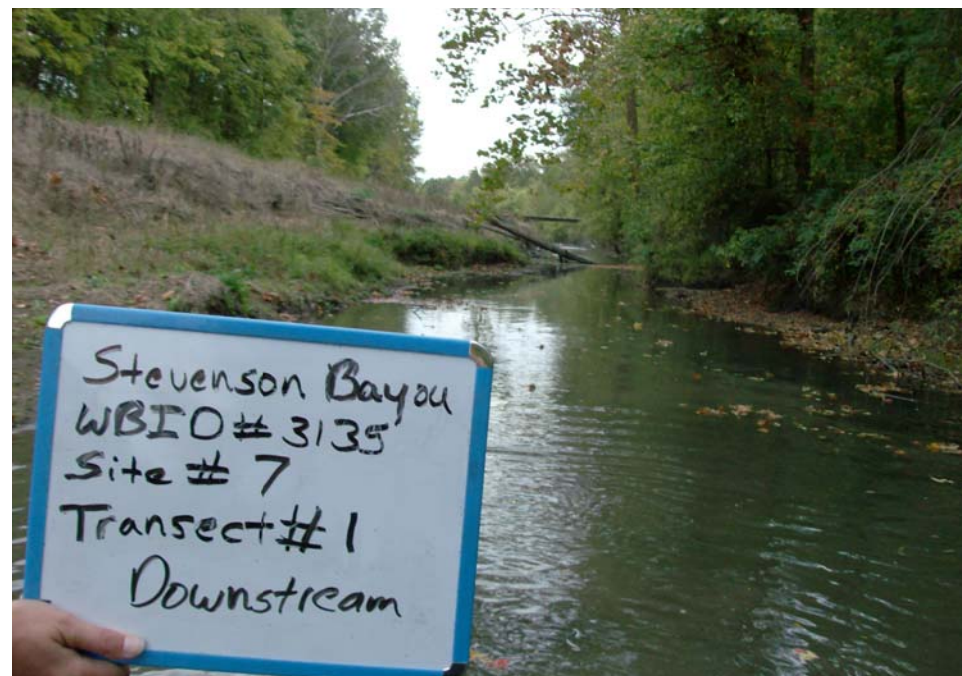














Stevenson Bayou  
WBID #3135  
Site # 8  
Transect # 1  
Downstream